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Unit	DEC 1 0 2009	AND TRADEMARK OFFICE	UNITED STATES DEPAR United States Hent and Address: COM MISSIONER F P.O. Box 1450 Alexandria, Virginia 22: www.uspto.gov	OR PATENTS
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/828,744	04/20/2004	Tracy E. Grim	GRIM3001/JJC/KDW	5476
23364 BACON & TH	7590 12/09/2009 IOMAS, PLLC		EXAM	INER
625 SLATERS	LANE		ROBINSON, JAM	IES MARSHALL
FOURTH FLO ALEXANDRI	OR A, VA 22314-1176		ART UNIT	PAPER NUMBER
	*		3772	
			MAIL DATE	DELIVERY MODE
			12/00/2000	DADED

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

· · · · · · · · · · · · · · · · · · ·					
	Application No.	Applicant(s)			
Office Assists Commencer	10/828,744	GRIM ET AL.			
Office Action Summary	Examiner	Art Unit			
	James M. Robinson	3772			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 22 Se	eptember 2009.				
2a) ☐ This action is FINAL . 2b) ☒ This	action is non-final.				
3) Since this application is in condition for allowar	·				
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>6,9-11,14,15,18,20-29 and 40-50</u> is/a	re pending in the application.				
4a) Of the above claim(s) is/are withdraw	• •				
5) Claim(s) is/are allowed.					
6) Claim(s) <u>6,9-11,14,15,18,20-29 and 40-50</u> is/ar	re rejected.				
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	r election requirement.				
Application Papers					
9) The specification is objected to by the Examine	r.				
10) ☐ The drawing(s) filed on is/are: a) ☐ acce		Examiner.			
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).			
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list	of the certified copies not receive	d.			
Attachment(s)		•			
1) Notice of References Cited (PTO-892)	4) Interview Summary				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P				
Paper No(s)/Mail Date 09/22/2009.	6) Other:				

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DETAILED ACTION

This action is in response to amendments/arguments filed 9/22/2009. Currently claims 6, 9-11, 14, 15, 18, 20-29, 40-50 are pending.

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 9/22/2009 has been entered.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 9/22/2009 was filed after the mailing date of the final action on 6/22/2009. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 6, 9, 14-15, 18, 20-22, 25-27, 29, 40-42,44, and 46-50 are rejected under 35 U.S.C. 103(a) as being unpatentable over Darcey (6,106,492) in view of Parker et al (5,755,678) and Ferguson et al (6,042,557) and Reidel (US 4,366,814).

Regarding claim 6, Darcey discloses a splint comprising: an elongated blank (14) impregnated with hardenable material, primary tacking arrangements (26) comprising at least one strip of material having opposed end portions (figure 8), hook type patch 32 secured at one end portion, and secondary holding arrangements (34) provided over said primary tacking for functionally securing the blank in place (Figure 11).

Darcey does not teach that the strip 26 is made of non-woven material, and the strip 26 of Darcey does not show to have hook type patch secured at both end portions, and Darcey does not specify that the strips 26 are non-rectangular in shape.

Parker et al teaches elastic primary tacking arrangements 124 which is made of stretchable material (figure 18) for allowing adjustability of the length of the elastic primary tacking arrangements 124.

Ferguson et al teaches an orthopedic splint with a primary tacking arrangements 26 comprising at least one strip, non-rectangular in shape, having opposed end portions, wherein hook type patches 38 secured on the opposed end portions (

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figure 9) for allowing adjustability of the positions of the strips 26 along the length of the splint, including fabric cover (32) of hook receivable material (40) wherein the hook receivable material on the outer surface of the blank is adapted to receive the hook type patches of the strip.

Reidel teaches a bandaging support material medical dressing including a strip made of non-woven material (col 2 ln 46-51).

In view of these teachings of Parker et al. and Ferguson et al. and Reidel, it would have been obvious to one skilled in the art at the time the invention was made to modify and provide the splint disclosed by Darcey with primary tacking arrangements strips which are made of stretchable material (as taught by Parker et al); and which are having non-rectangular shape with opposed end portions, wherein the opposed end portions include hook type patches secured on opposed end portions in order to allow adjustability of the locations of the primary tacking arrangement strips relative to and along the length of the splint. Further, in view of the teachings of Reidel, it would have been obvious to one having ordinary skill in the art at the time the invention was made to choose a non-woven material for the primary tacking strip, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 USPQ 416. Note that this type of primary tacking arrangement is very well-known in the art.

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Note that providing the teaching of Parker et al of using an elastic "stretchable" strip for the primary tacking arrangement for allowing adjustability of the length of the elastic primary tacking arrangements, it is obvious that the choice of the type and strength of the stretchable material for the stretchable strip: for example, "tearable", "low-profile", "insufficient strength", etc.... to rigidly immobilize the splint for long term use, is well within the realm of one ordinary skill in the art, and does not provide any unobvious result, and therefore is not patentable over prior art.

Regarding claim 9, note figure 9 of Ferguson et al.

Regarding claim 14, the secondary holding arrangements of Darcey comprise structure 34 overlying the blank.

Regarding claims 15,18, and 29, Ferguson et al teaches a primary tacking arrangements strip 26 (figure 9) which is non-rectangular in shape and wherein the strip is removable and repositionable.

Regarding claim 20, the blank of Darcey has a padding layer 20 (figure 6) on at least one side .

Regarding claim 21, the secondary holding arrangement 34 of Darcey includes a resilient, flexible, stretchable tape (figure 11).

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As regards claim 22, note that the blank of Parker et al (figure 18) and the blank of Ferguson et al (figures 1, 3 and 6) each has a non-rectangular shape, and each has lateral extending extensions (figure 18) extending laterally from said blank.

As for claim 25, note that the blank of Ferguson et al has a cover formed of a hook receivable material 40.

As for claims 26, 27, note the comments relative to the claims above.

As for claims 40- 42, 44, 47, note the comments above for the combination teachings of Darcey, Parker et al, Ferguson et al. and Reidel. Note the inner padding layer 20 (figure 6 of Darcey), and note that the blank of Ferguson et al (figure 9) is covered with loops receivable material an equivalent of unbroken loop fabric.

Although Darcey does not disclose a blank that is in roll form, note that Parker et al discloses a splint comprising: an elongate blank (10) in roll form (Figure 1). Parker et al specifies that the splint be in roll form so that it can be dispensed in used-determined lengths suitable for any given medical use. In view of this teaching of Parker et al, it would have been obvious to one skilled in the art at the time the invention was made to provide the splint disclosed by Darcey with the blank is in roll form, so that it can be dispensed in used-determined lengths suitable for any given medical use.

As for claim 46, note that the layers 24A-F of Darcey are multiple layers of casting material.

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As for claims 48-50, the combination of Darcey, Parker and Ferguson fails to disclose the non-woven material is hydrophobic. However Reidel discloses the adhesive support member is provided with a strip of known hydrophobic non-woven material (col 2 ln 45-56). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the strip of Darcey/Parker to be composed of a hydrophobic material as taught by Reidel in order to prevent the non-woven material from becoming wet and heavy from being soaked with water when the orthopedic blank is submerged in water to activate the blank.

3. Claims 10, 11, 28, 43, and 45 are rejected under 35 U.S.C. 103(a) as being unpatentable over Darcey (6,106,492) in view of Parker et al (5,755,678) and Ferguson et al (6,042,557) and Reidel (4,366,814) and further in view of Grim et al (6,139,513).

Note the comments above for the combination teachings of Darcey ,Parker et al , and Ferguson et al.

Darcey does not disclose a splint wherein the blank is formed of double knit spacer material.

As for claims 10, 28, 43, and 45, Grim et al. discloses a splint wherein the blank is formed of double knit spacer material (28). Grim et al. specifies that the use of double knit type material improve the control of the flow of water to the curable resin and provide desired strength for the product. In view of this teaching of Grim et al, it would

have been obvious to one skilled in the art at the time the invention was made to provide the splint disclosed by Darcey with a blank formed of double knit spacer type material to improve the control of the flow of water to the curable resin and provide desired strength for the product.

As for claim 11, note figure 7 of Grim et al, and note that the provision for this recited structure for a splint is well known in the art.

Claims 23-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Darcey in view of in view of Parker et al (5,755,678) and Ferguson et al (6,042,557), and further in view of Schlogel (5,195,944).

Note the comments above for the combination teachings of Darcey ,Parker et al , and Ferguson et al.

Darcey does not disclose a splint with spits along the length of the splint, and does not teach an anti-flexion strap.

As for claims 23-24, Schlogel teaches a splint having slits 10, 21 along the length of the splint, and teaches anti-flexion strap 20 (figure 2).

In view of this teaching of Schlogel, it would have been obvious to one skilled in the art at the time the invention was made to provide the splint disclosed by Darcey with slits along the length of the splint to reduce bulk after molding, and with an anti-flexion strap 20 for increase support.

Response to Arguments

4. With respect to applicant's position on page 6 of Remarks that since both Darcey and Parker disclose straps that are sole securing means designed to be durable and strong enough to alone securely hold their respective devices to wearers, the skilled artisan would in no way be inclined to modify the straps of Darcey to be weaker than their current form, examiner respectfully disagrees. The instant rejection relies on the teaching of Reidel which discloses a material of insufficient strength to rigidly immobilize a splint for long-term use. Examiner maintains the modification would have been obvious to one of ordinary skill in the art at the time of the rejection since since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. In re Leshin, 125 USPQ 416. The modification merely relies upon an alternative material that is known in the art.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James M. Robinson whose telephone number is (571) 270-3867. The examiner can normally be reached on Mon-Fri 9AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patricia Bianco can be reached on (571)272-4940. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/James M. Robinson/

/Patricia Bianco/ Supervisory Patent Examiner, Art Unit 3772

PTO/SB/08a (04-09)

Approved for use through 05/31/2009. OMB 0651-0031
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Substitute for form 1449/PTO		Complete if Known		
		Application Number	10/828,744	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Filing Date April 20, 2004		
		First Named Inventor	Tracy E. Grim	
		Art Unit	3772	
		Examiner Name	Robinson, James M.	
	of 1	Attorney Docket Number	GRIM3001/JJC/KDW	$\overline{}$

Examiner Initials*	Cite No.	Document Number Number-Kind Code ^{2 (f known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		^{US-} 3,121,021	2-11-1964	Copeland	
		^{US-} 2005/0084647	4-21-2005	Menzies	
		^{US-} 2003/0077439	4-24-2003	Neubert	
		^{US-} 2006/0182950	8-17-2006	Yun	
		^{US-} 6,042,557	3-28-2000	Ferguson	
		^{US-} 4,662,874	5-05-1987	Korpman	
		^{US-} 6,824,522	11-30-2004	Henderson	
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		^{US-} 5,437,614	8-01-1995	Grim	
		^{US-} 5,341,513	8-30-1994	Klein	
		^{US-} 4,366,814	1-04-1983	Riedel	
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Examiner Initials*	Çite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	Γ
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Examiner Signature	/James Robinson/	Date Considered	12/03/2009

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspio.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Skind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.18 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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